

WHAT IS CLAIMED IS:

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1. A drive transmission apparatus comprising:
a first coupling portion having a polygonal
5 shape;
a second coupling portion having a hole
portion which has a cross-sectional configuration
larger than said first coupling portion, said hole
portion being engageable with said first coupling
10 portion; and
a center shaft provided on said first
coupling or said second coupling, said center shaft
penetrating the other one of said first and second
coupling.
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2. An apparatus according to Claim 1, wherein
said first coupling portion receives a driving force
from said second coupling portion.
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3. An apparatus according to Claim 1, wherein
said second coupling portion is movable in an axial
direction of said center shaft, and is provided with
an urging means for urging said second coupling in the
axial direction of said center shaft.
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4. An apparatus according to Claim 1, wherein
said center shaft has a taper configuration at the end

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portion.

5. An apparatus according to Claim 1, wherein
said first coupling portion has a twisted projection
having a polygonal cross-section.

6. An apparatus according to Claim 1, wherein
the hole portion of said second coupling portion has a
polygonal cross-section.

10 7. An apparatus according to Claim 5 or 6,
wherein said polygonal hole portion of said second
coupling portion is twisted.

15 8. An apparatus according to Claim 1, wherein
said center shaft is rotatable integrally with said
first and second coupling portions.

20 9. An apparatus according to Claim 8, further
comprising brake means actable on said center shaft in
its circumferential direction.

25 10. An apparatus according to Claim 9, wherein
said brake means applies a frictional force to said
center shaft.

11. An apparatus according to Claim 10, wherein

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the frictional force is applied by an elastic member contactable to said center shaft.

12. An apparatus according to Claim 9, wherein
5 said brake means is a powder-brake.

13. An apparatus according to Claim 9, wherein
said brake means is provided with a torque!!.

10 14. An apparatus according to Claim 9, wherein
said brake means includes magnetic force applying
means for applying a magnetic force to said center
shaft.

15. An image forming apparatus comprising:

 a photosensitive member;

 charging means for charging said

 photosensitive member;

 image forming means for forming an

20 electrostatic image on said photosensitive and charged

 by said charging means;

 developing means for developing the

 electrostatic image;

 transferring means for transferring the image

25 developed by said developing means onto a recording

 material;

 a driving source;

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a driver for transmitting a driving force from said driving source to said photosensitive member;

5 a first coupling portion having a polygonal shape;

10 a second coupling portion having a hole portion which has a cross-sectional configuration larger than said first coupling portion, said hole portion being engageable with said first coupling portion; and

15 a center shaft provided on said first coupling or said second coupling, said center shaft penetrating the other one of said first and second coupling;

20 wherein said photosensitive member has one of said first coupling portion and said second coupling portion, and said driver as the other coupling portion.

25 16. An apparatus according to Claim 15, wherein said first coupling portion receives a driving force from said second coupling portion.

17. An apparatus according to Claim 15, wherein 25 said photosensitive member is positioned currently relative to said image forming apparatus using said center shaft.

Claim 18
18. An apparatus according to Claim 15, wherein
said center shaft has a taper configuration at the end
portion.

5 19. An apparatus according to Claim 15, wherein
said first coupling portion has a twisted projection
having a polygonal cross-section.

10 20. An apparatus according to Claim 15, wherein
the hole portion of said second coupling portion has a
polygonal cross-section.

15 21. An apparatus according to Claim 15, wherein
said polygonal hole portion of said second coupling
portion is twisted.

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22. An apparatus according to Claim 15, wherein
8. An apparatus according to Claim 1, wherein said
center shaft is rotatable integrally with said first
20 and second coupling portions.

Claim 23
23. An apparatus according to Claim 15, further
comprising brake means actable on said center shaft in
its circumferential direction.

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24. An apparatus according to Claim 23, wherein
said brake means applies a frictional force to said

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center shaft.

25. An apparatus according to Claim 24, wherein
the frictional force is applied by an elastic member
5 contactable to said center shaft.

26. An apparatus according to Claim 23, wherein
said brake means is a powder-brake.

10 27. An apparatus according to Claim 23, wherein
said brake means is provided with a torque.

15 28. An apparatus according to Claim 23, wherein
said brake means includes magnetic force applying
means for applying a magnetic force to said center
shaft.

20 29. An apparatus according to Claim 15, wherein
said transferring means includes an intermediary
transfer member.

25 30. An apparatus according to Claim 15, wherein
said photosensitive member is a part of a unit
including process means actable on said photosensitive
member.

31. An apparatus according to Claim 30, wherein

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said process means includes at least one of said
15 charging means, said developing means and cleaning
20 means for cleaning photosensitive member.

5 32. A process unit which is detachably mountable
to an image forming apparatus having a driving
portion, said process unit including process means
actable on the photosensitive member, said process
unit comprising:

10 a first coupling portion having a polygonal
shape and engageable with the driving portion of the
main assembly of the apparatus;

a hole portion engaged with a center shaft
penetrating an engaging portion between said first
coupling portion and the driver.

33. A process unit according to Claim 32, wherein said process unit is positioned correctly relative to said image forming apparatus using said center shaft.

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34. A process unit according to Claim 32, wherein
said center shaft has a taper configuration at the end
portion.

25 35. A process unit according to Claim 32, wherein
said first coupling portion has a projection having a
polygonal cross-section.

36. A process unit according to Claim 35, wherein
said polygonal portion is twisted.

5 37. A process unit according to Claim 32, wherein
said first coupling portion has a hole portion having
a polygonal cross-section.

10 38. A process unit according to Claim 37, wherein
said hole portion is twisted.

15 39. A process unit according to Claim 32, wherein
said center shaft is rotatable integrally with said
first coupling.

40. A process unit according to Claim 39, further
comprising brake means actable on said center shaft in
its circumferential direction.

20 41. A process unit according to Claim 40, wherein
said brake means applies a frictional force to said
center shaft.

25 42. A process unit according to Claim 41, wherein
the frictional force is applied by an elastic member
contactable to said center shaft.

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43. A process unit according to Claim 40, wherein
said brake means is a powder-brake.

44. A process unit according to Claim 40, wherein
5 said brake means is provided with a torque!!!.

45. A process unit according to Claim 40, wherein
said brake means includes magnetic force applying
means for applying a magnetic force to said center
10 shaft.

46. A process unit according to Claim 32, further
comprising a photosensitive member.

15 47. A process unit according to Claim 46, wherein
said first coupling portion is provided on said
photosensitive member.

48. A process unit according to Claim 32, wherein
20 said process means includes at least one of said
charging means, said developing means and cleaning
means for cleaning photosensitive member.